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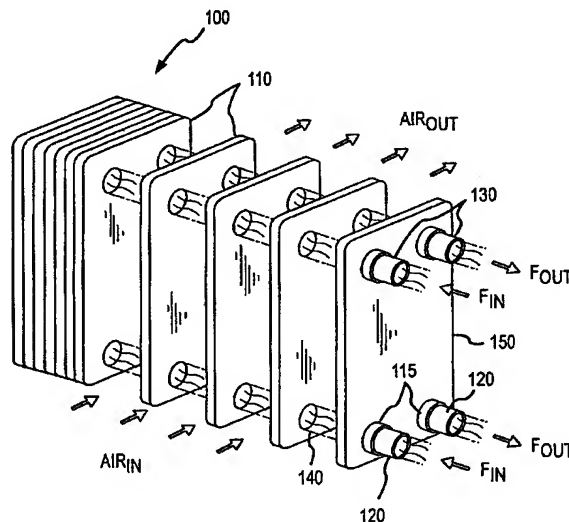
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[Continued on next page]

(54) Title: TABBED TRANSFER FINS AND AIR-COOLED HEAT EXCHANGERS WITH TABBED FINS



(57) Abstract: Heat transfer fins (110), and heat exchangers (100) incorporating such fins (110), enhancing heat transfer with ac-  
ceptable pressure drop increase. The fins (110) include tabs or secondary fins bent upward and downward from the fin body at a  
selected bend angle. All or a majority of the tabs are aligned with a simple flow path or with local flow paths for cooling air adjacent  
the fins (110) to minimize turbulence and pressure drop. The tabs are planar and generally aligned parallel to the simple flow path or  
local flow paths and are arranged so as to serve as a plurality of sites for starting new boundary layers by offsetting the tabs such that  
downstream tabs are not shadowed by upstream tabs. The tabs have a height sufficiently large to extend the tabs out into boundary  
layers on the fin (110). The tabs provide more uniform flow over fins (110) and shrink wake size behind tubes (120).

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